The JASON Project℠

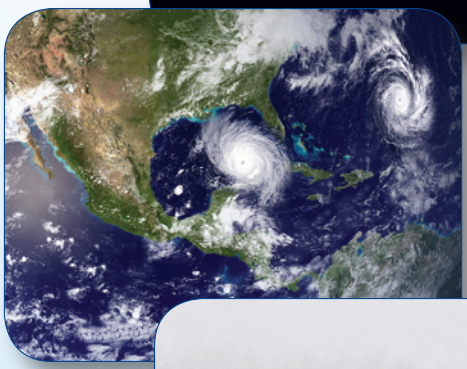
Monster Storms

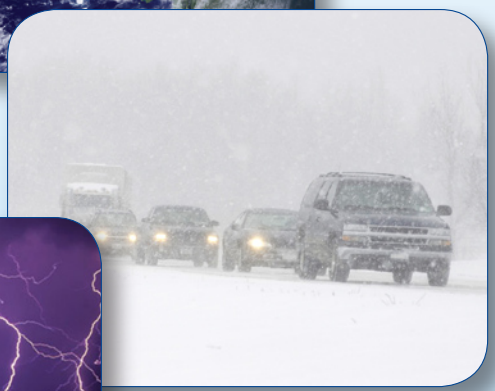
Turn students into tornado chasers…
…and be blown away by their achievement

The JASON Project's *Monster Storms* curriculum will transport your classroom to the center of Earth's most fierce and ferocious weather events. Students and teachers can journey through a hurricane, chase a tornado and harness a bolt of lightning by working directly with leading scientists.

Based on current research from NOAA and NASA, The JASON Project's standards-based curricular materials bring science to life and capture the excitement of authentic exploration and discovery. Fun hands-on, multimedia activities provide teachers a seamless way to incorporate standards for grades 5-8.

The classroom-ready, pilot edition of *Monster Storms* will be available in July 2006 for teachers to use throughout 2006, with access to the final curriculum edition in early 2007. *Monster Storms* provides a framework for students to understand core science processes of how Earth, oceans, atmospheres and life interact.





Learn about:

- Hurricanes, tornadoes, thunderstorms, and lightning
- Storm formation
- Forecasting, warnings and safety precautions
- Extreme weather impact and human interaction
- Climate and global monitoring

National Science Education Standards covered include:

- Physical Science: Transfer of Energy
- Earth Science: Structure of the Earth System
- Science in Personal and Social Perspectives: Natural Hazards

Inspire the next generation of scientists, engineers and technologists!

Join the Exploration Team!

JASON's *Monster Storms* curriculum will bring the thrill of discovery into the classroom, using real experience as a guide. JASON will explore and travel into the eye of the storm by following leading scientists and learning how they work in the field. Students will be transformed into researchers when they become members of the JASON exploration team on a mission to understand weather, climate, and extreme events.

Throughout the *Monster Storms* investigation, the JASON team will be guided by three research questions:

- What are the dynamic systems of Earth and space?
- How do these systems influence life or the planet (and how does life influence the systems)?
- What technologies are used to study (forecast and recover from) these systems?

Why Participate?

- Increases students' interest in science and the world around them
- Correlations show alignment to state and national standards
- Online assessment tools help measure student performance and help students assess their own work and prepare for testing
- Maps to the scope and sequence of major science textbooks
- Adapts to a variety of classrooms and learning styles
- Interdisciplinary content incorporates math, geography, social studies, and language arts
- Professional development workshops and courses are also available to support classroom integration
- Independent evaluations show JASON's positive impact on students' science learning

What is The JASON Project?

A nonprofit subsidiary of the National Geographic Society, The JASON Project provides multimedia science curriculum and professional development to one million middle-grades students and 20,000 teachers in 41 states and around the world. Named for the mythological Greek adventurer, JASON offers students and teachers a distinctive opportunity to learn through exploration, discovery and connections with real scientists.

Interact with Top NOAA and NASA Researchers!

JASON HOST RESEARCHERS

Jason Dunion
Meteorologist, University of Miami/RSMAS/CIMAS and NOAA/AOML Hurricane Research Division

Anthony Guillory
Airborne Science Manager, NASA/Goddard Space Flight Center/Wallops Flight Facility

Robbie Hood
Atmospheric Scientist, NASA/Marshall Space Flight Center:Earth Office

Shirley Murillo
Research Meteorologist, NOAA/AOML Hurricane Research Division

Tim Samaras
Senior Engineer, Applied Research Associates and NGS Emerging Explorer

JASON GUEST RESEARCHERS

Michael Black – Research Meteorologist, NOAA/AOML Hurricane Research Division

Scott Braun – NASA Research Meteorologist, NASA/Goddard Spaceflight Center, Mesoscale Atmospheric Processes Branch

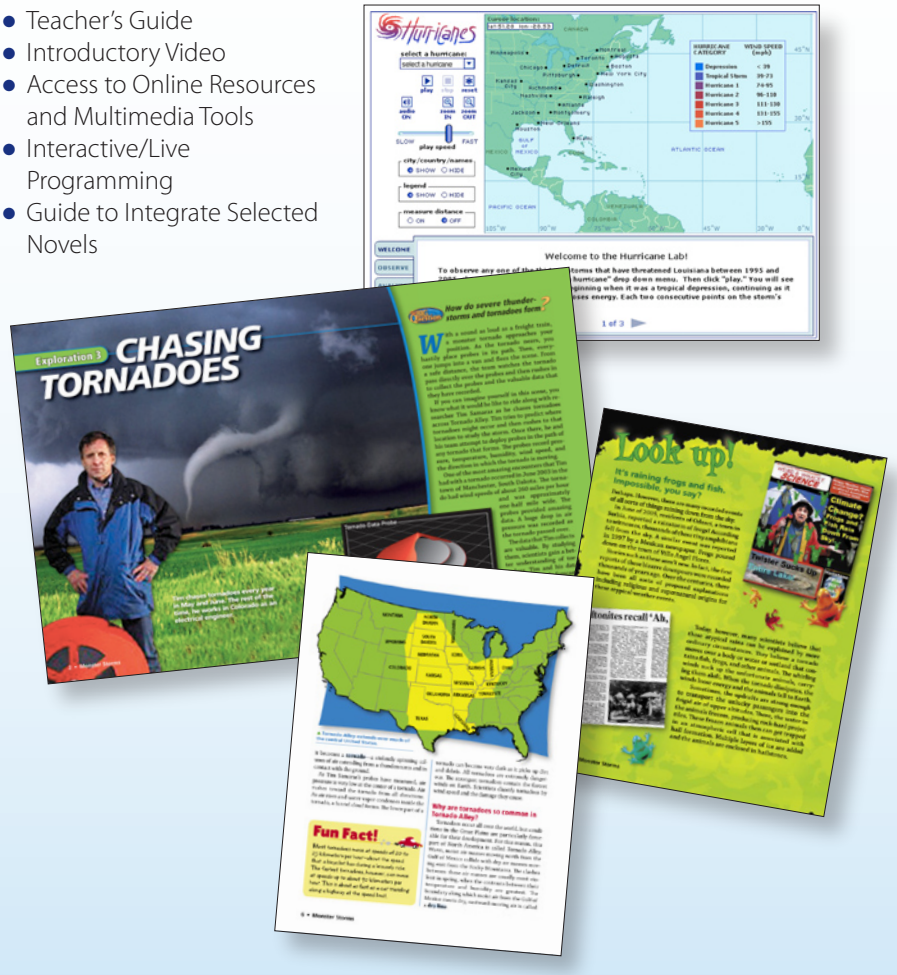
Stanley Goldenberg – NOAA Research Meteorologist, NOAA/Atlantic Ocean Meteorological Laboratory/Hurricane Research Division

Teach Your Students to Think Like Scientists with *Monster Storms*

How Can You Bring The JASON Project Into Your Classroom?

The JASON Project instructional materials and multimedia components are distributed in single-teacher licenses. Materials for each *Monster Storms* standards-based, multimedia curriculum include:

- Student Edition
- Teacher's Guide
- Introductory Video
- Access to Online Resources and Multimedia Tools
- Interactive/Live Programming
- Guide to Integrate Selected Novels



Take Off on a Learning Adventure!

To learn more about The JASON Project's pilot *Monster Storms* curriculum or the final curriculum edition available in early 2007, visit www.jason.org, e-mail info@jason.org or call 1-888-527-6600.

The Student Edition contains:

- Welcome Letter
- Five "Exploration" units that each include:
  - Video Segments to meet featured researcher and introduce Exploration theme
  - Meet-the-Researcher online biography
  - Print research article
  - Two hands-on activities
  - One comprehensive inquiry-based investigation
  - Online digital lab
- Eight "Connection" topics that extend content presented in Explorations
- Science Fun Facts
- Student Poster
- Glossary

The Teacher's Guide contains:

- JASON Instructional Framework
- Standards Alignment
- Pacing Guide and Scope & Sequence
- Online Tools Overview
- Lesson Plans for Explorations and Connections
- Teacher Instructional Tips
- Answer Key
- Student Worksheets
- Materials List

 The JASON Project receives funding from NOAA and NASA to develop and help support the *Monster Storms* curriculum and its components.